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U. S. Department of Agriculture

THE NAVAL STORES STATION

Bureau of Chemistry and Soils

United States Department of Agriculture



THIS STATION IS ESTABLISHED TO SERVE THE
NAVAL STORES INDUSTRY

Designed, built, equipped, and manned
to study and solve the problems
of the production and use of Naval Stores



*Producers are invited to refer their problems
to the Station for consultation and advice*



THE PURPOSE OF THE STATION
IS TO ANSWER QUESTIONS AND FURNISH PROOF

After arranging with the Station chief
you may bring to the Station a charge of gum
It will be run in the presence of your own stiller
to determine what can be made from it



Telephone or write before you come
in order that we may make the
necessary arrangements

THE STATION IS ON
THE OSCEOLA NATIONAL FOREST
"Old Spanish Trail"

10 miles east of Lake City, Florida

It can be reached over good roads
from any point in the turpentine belt



Experimental work on pine gum production
is also done here on the Osceola National Forest
by The United States Forest Service



The Florida Forest Service
is cooperating with the Bureau of Chemistry and Soils
and carries direct to Florida producers the best
Naval Stores practices



The work of the Forest Service
and of the Bureau of Chemistry and Soils
may be inspected on the one trip to the Station



STATION STAFF

GEORGE P. SHINGLER, Acting Chief
----- Chemical Engineer
CHARLES K. CLARK, Assistant Chemist
WILLIAM D. SMITH, Accountant
MISS G. M. CORY, Clerk
N. C. McCONNELL, Stiller
Experienced, reliable turpentine laborers



C. H. COULTER, Florida Cooperative Agent

Here are some of the things the Bureau has done



1. Developed permanent rosin standards.
2. Developed a fire still that heats evenly, draws perfectly, and saves fuel. The highest grades of rosin which can be made from normal gum can be produced with this still.
3. Demonstrated that the use of a thermometer on a still pays the producer in better grades of rosin.
4. Demonstrated that the use of a graduated bottle pays dividends in more turpentine and better rosin.
5. Showed that a small amount of rust in the gum may lower the rosin three or four grades.
6. Proved that turpentine may be stored two years or more under proper conditions without material change.
7. Developed a good rosin-sampling mold.
8. Designed, built, and proved out the best type steam still for American conditions.
9. Developed for the industry reliable annual statistics on consumption of Naval Stores.
10. Made available to the producer, at his own still, the best Naval Stores practices, through cooperation with State organizations, thus helping him to make better rosin, save turpentine already made, and reduce waste.

The program of the Station includes work on:

Gum cleaning.

Improved processes and equipment.

Turpentine cups and gutters.

Dipping and dipping tools.

Better rosin straining.

Better turpentine separators.

Getting water out of turpentine.

Better dip barrels.

Losses from uncovered dip barrels.

A better rosin package.

Turpentine storage and shipping.

Saving the rosin in chips and dross.

Producers' stilling problems.

Instruction in running turpentine still.

Gluing turpentine barrels.

Better coatings for turpentine drums.

Cup cleaning.

Better methods of sampling rosin.

Rosin for special purposes.

Turpentine for special purposes.

Instruction in still setting.



The problems of Naval Stores production and use can not be worked out at the usual turpentine place. We have tried it!



This Station is a chemical plant to work out chemical problems



It is built and equipped to last



The Station, buildings, and this equipment are all needed for the adequate study of the numerous problems that are encountered in the production and use of Naval Stores.



BE SURE TO SEE THESE THINGS:

- Complete fire still—running.
- Naval Stores Industrial Research Building.
- Boiler house and boilers.
- Truck and other scales.
- Water supply and tank.
- Rosin storage yard.
- Rosin barrel coopering.
- Turpentine barrel gluing.
- Lighting plant.
- Fire protection.
- Turpentine tanks.
- Turpentine shed.
- Rosin shed.
- Clean rosin samples.
- Moving pictures.
- Forest fire-fighting equipment.
- Forest road machinery and other forest tools.

ORGANIZATION OF WORK OF BUREAU OF CHEMISTRY AND SOILS ON NAVAL STORES



